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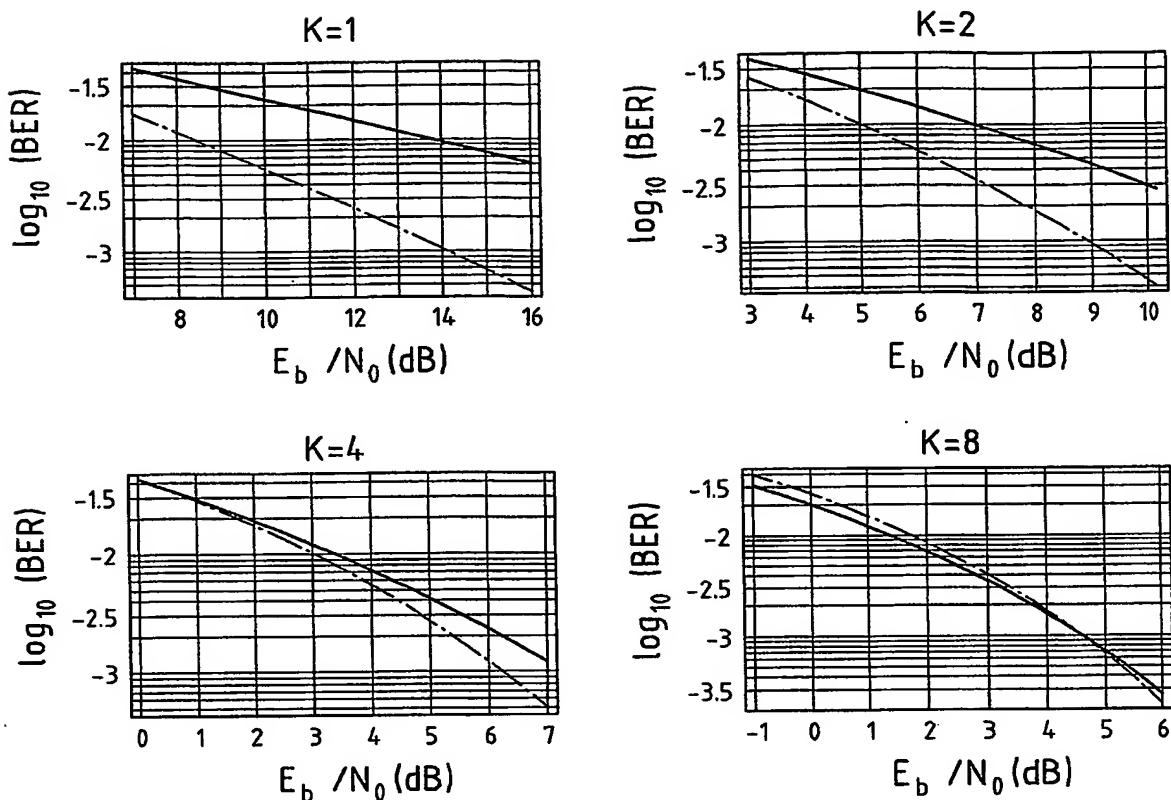


Fig.1 Prior Art

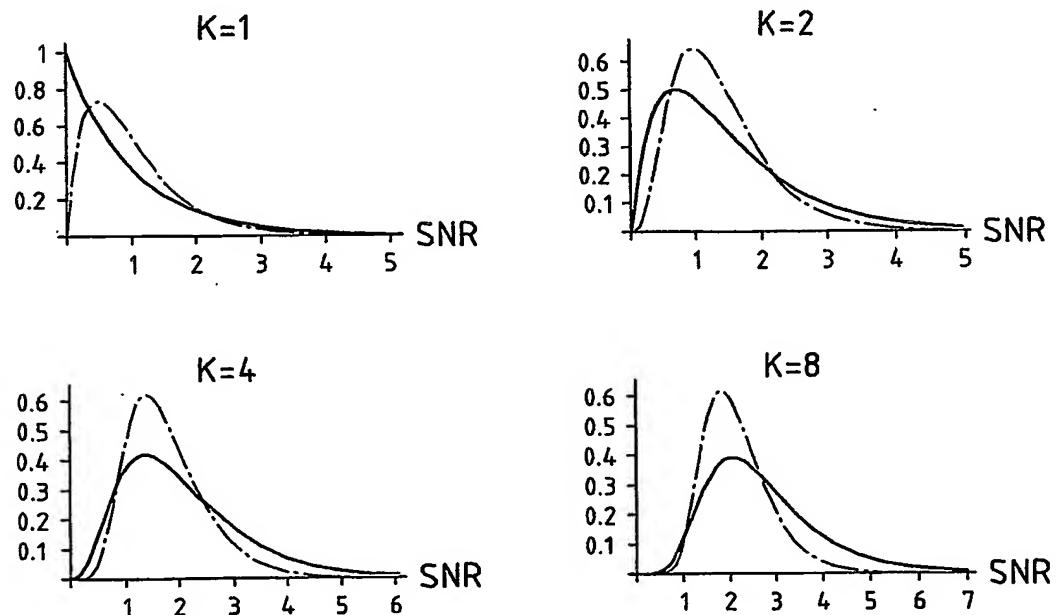


Fig.2 Prior Art

modulation	calculation	R_k		det R_k	
		method	multipls	adds	multipls
ABBA	direct	128 Cx	112 C+	40 Cx	30 C+
	proposed	12 Cx	10 C+	3 Rx	1 R+
DABBA	direct	512 Cx	448 C+	79176 Cx	18880 C+
	proposed	20 Cx	12 R+	7 Rx	3 R+
TSTTD	direct	64 Cx	48 C+	40 Cx	30 C+
	proposed	6 Cx	2 R+	total R_k	and det R_k
		and 1 C+	3 Cx	1 C+	

Fig.3

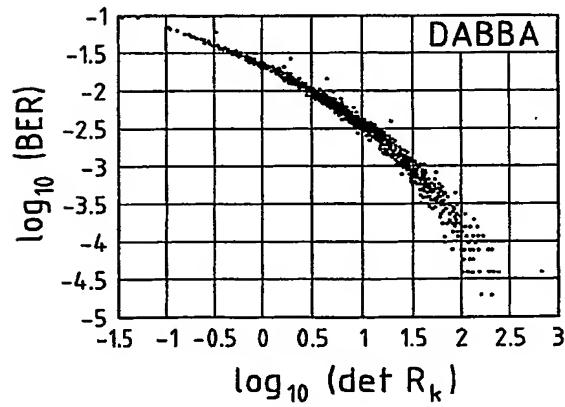
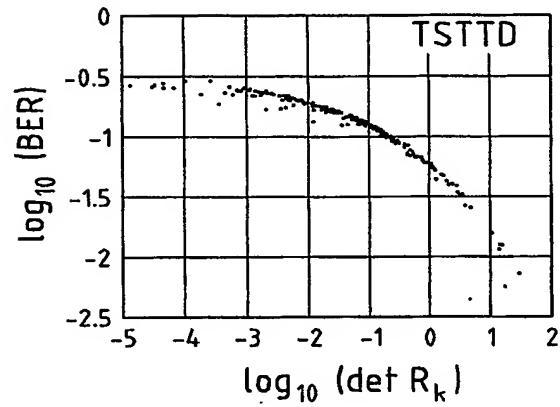
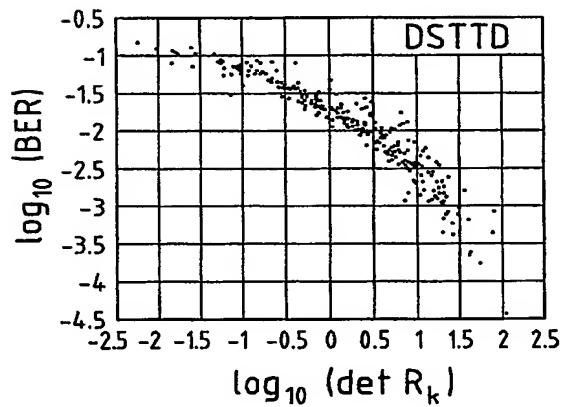
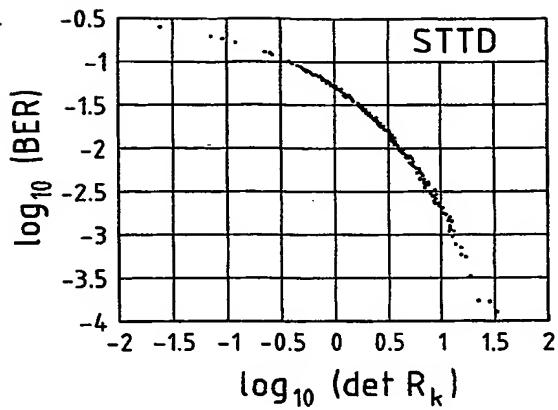
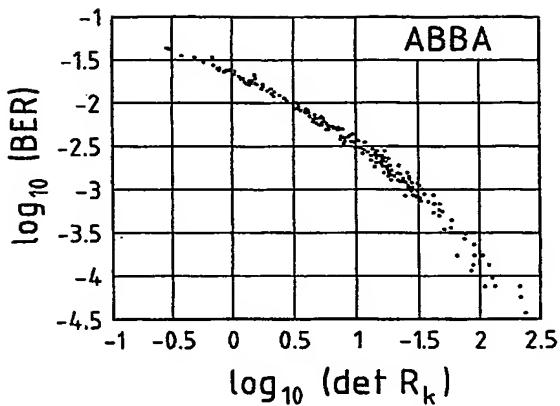


Fig.4

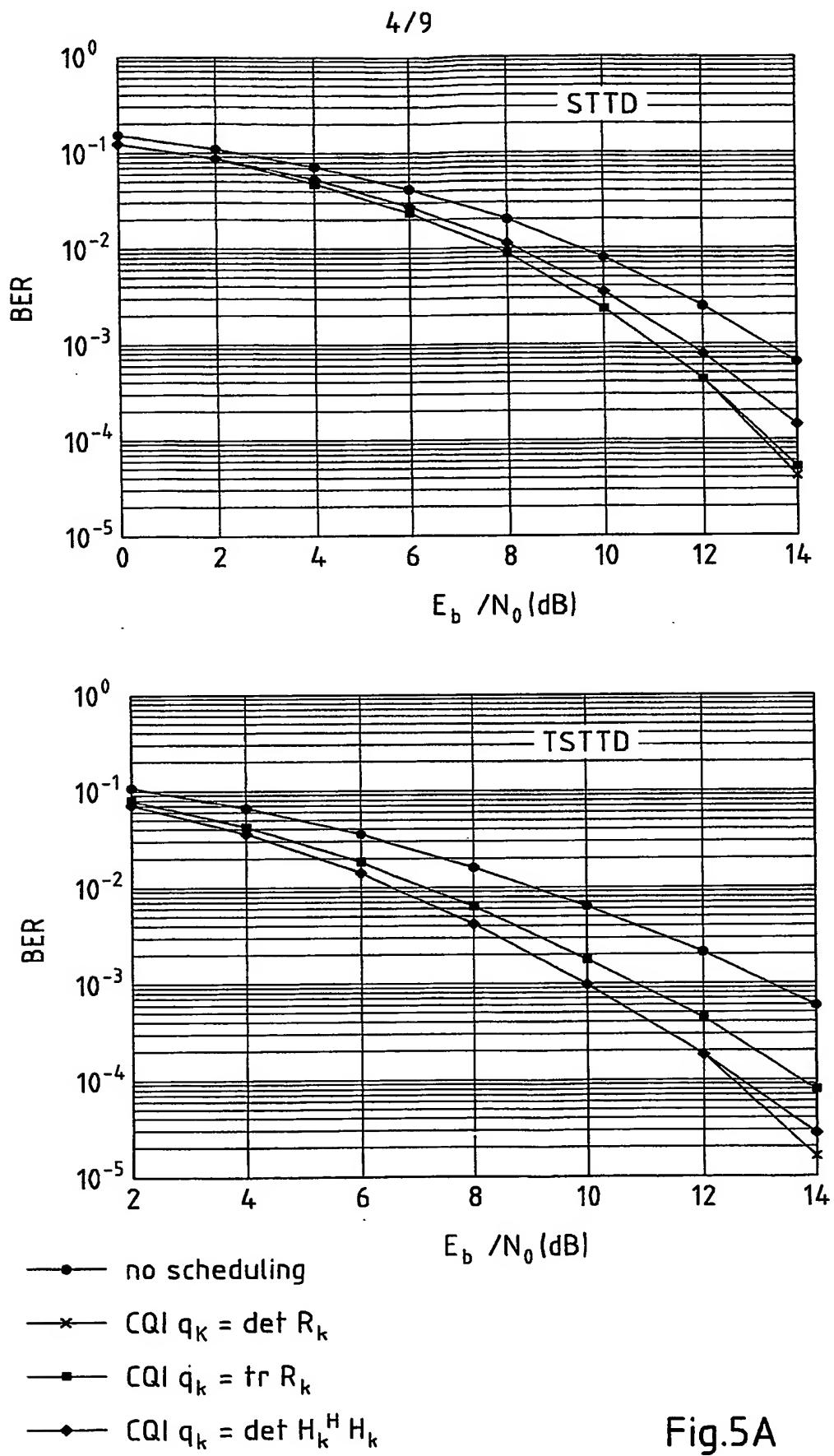
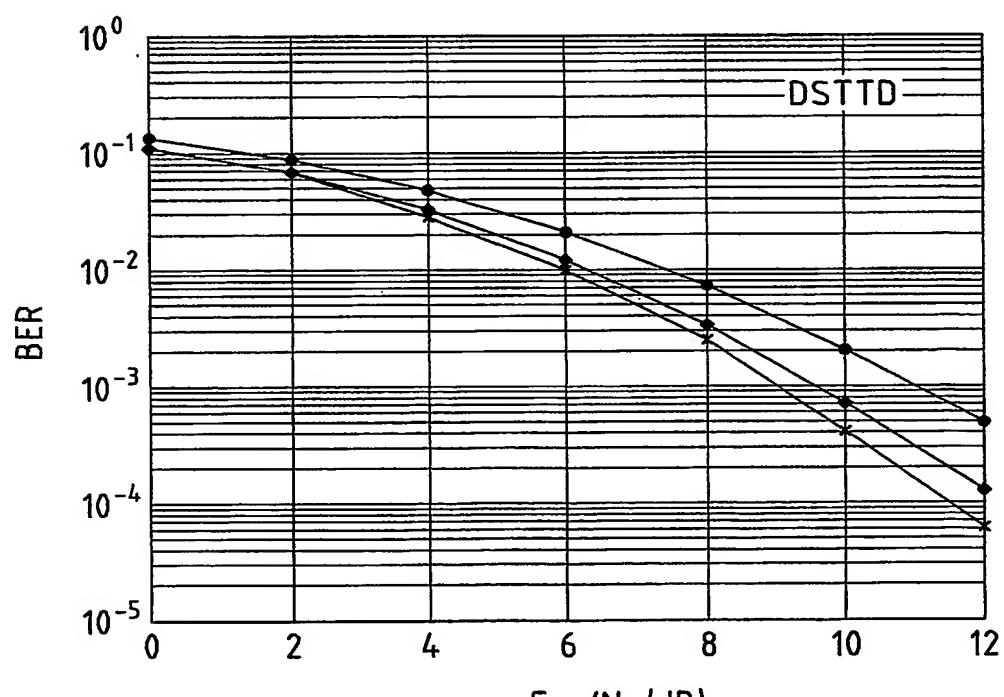
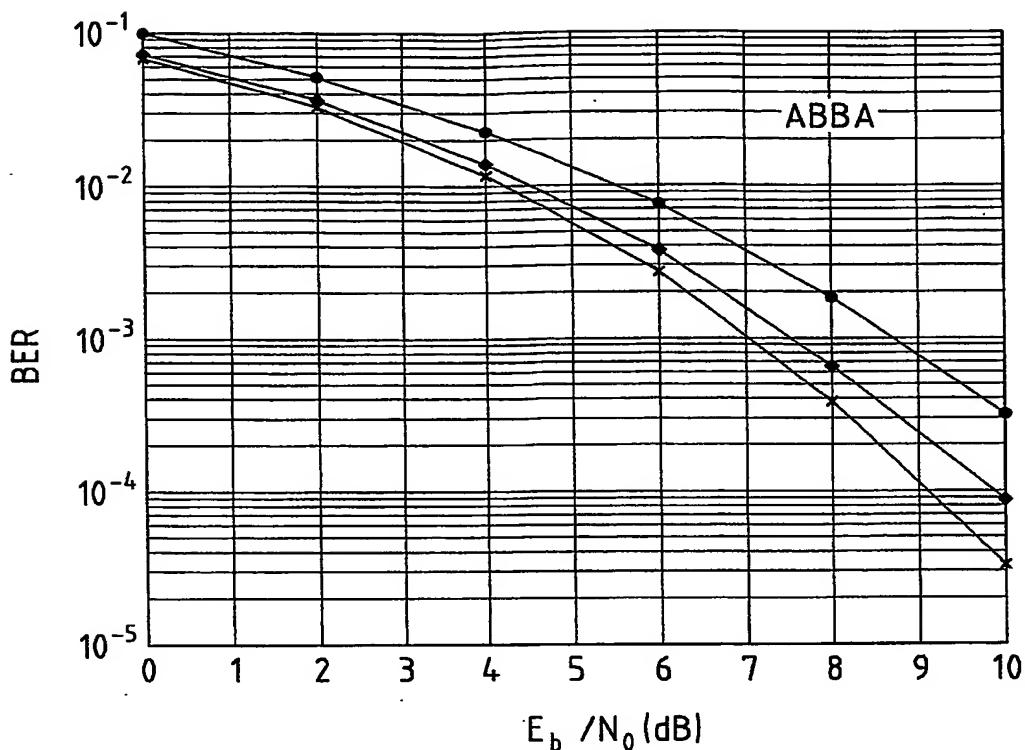


Fig.5A

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- no scheduling
- ×— CQI $q_k = \det R_k$
- ◆— CQI $q_k = \det H_k^H H_k$

Fig.5B

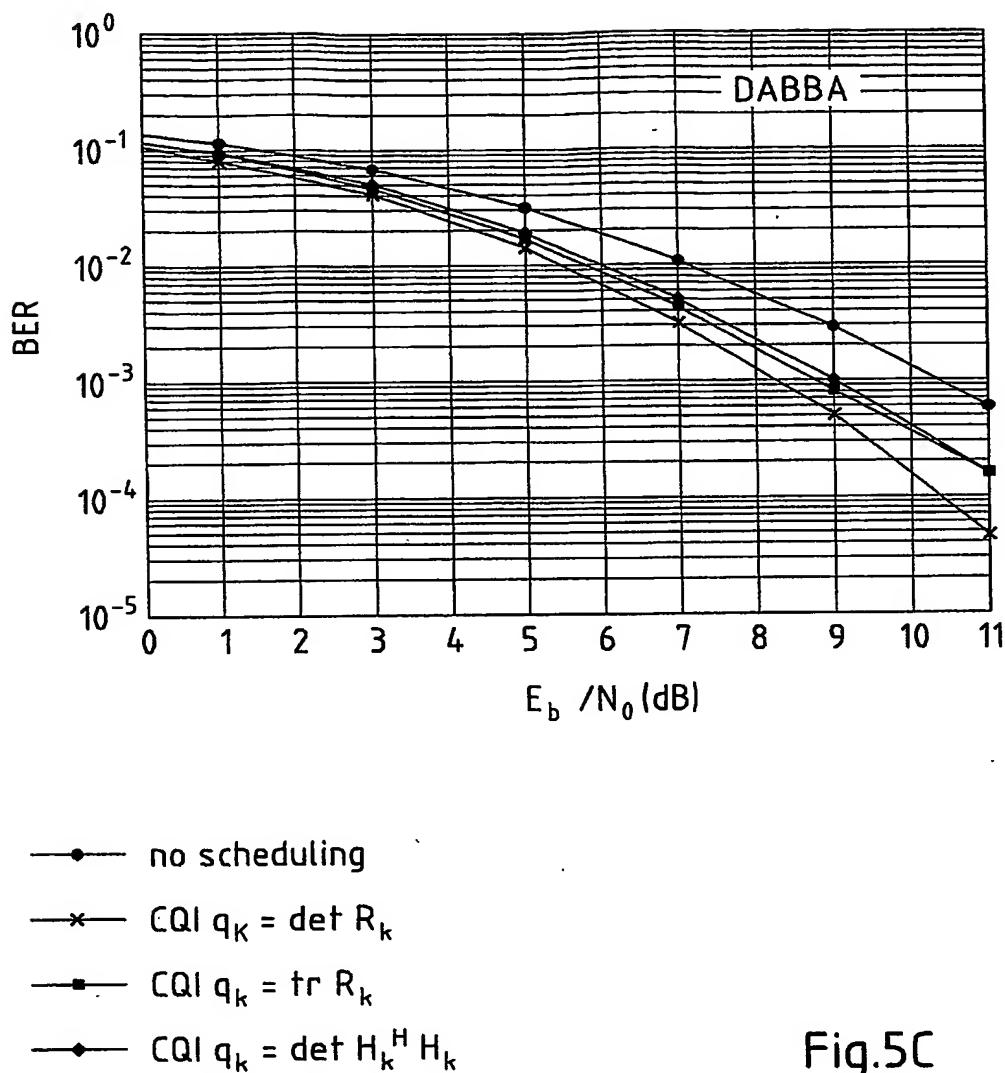


Fig.5C

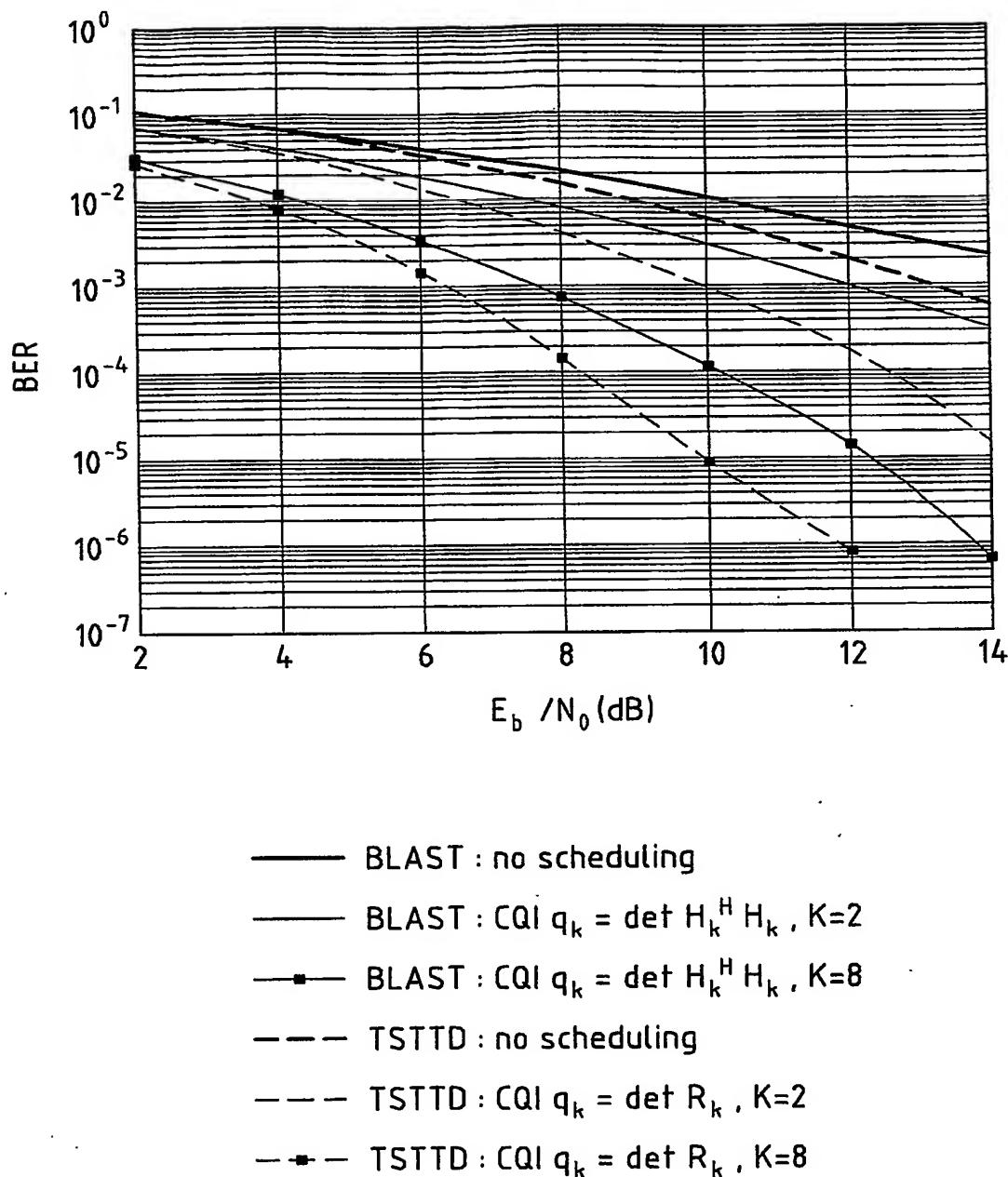


Fig.6

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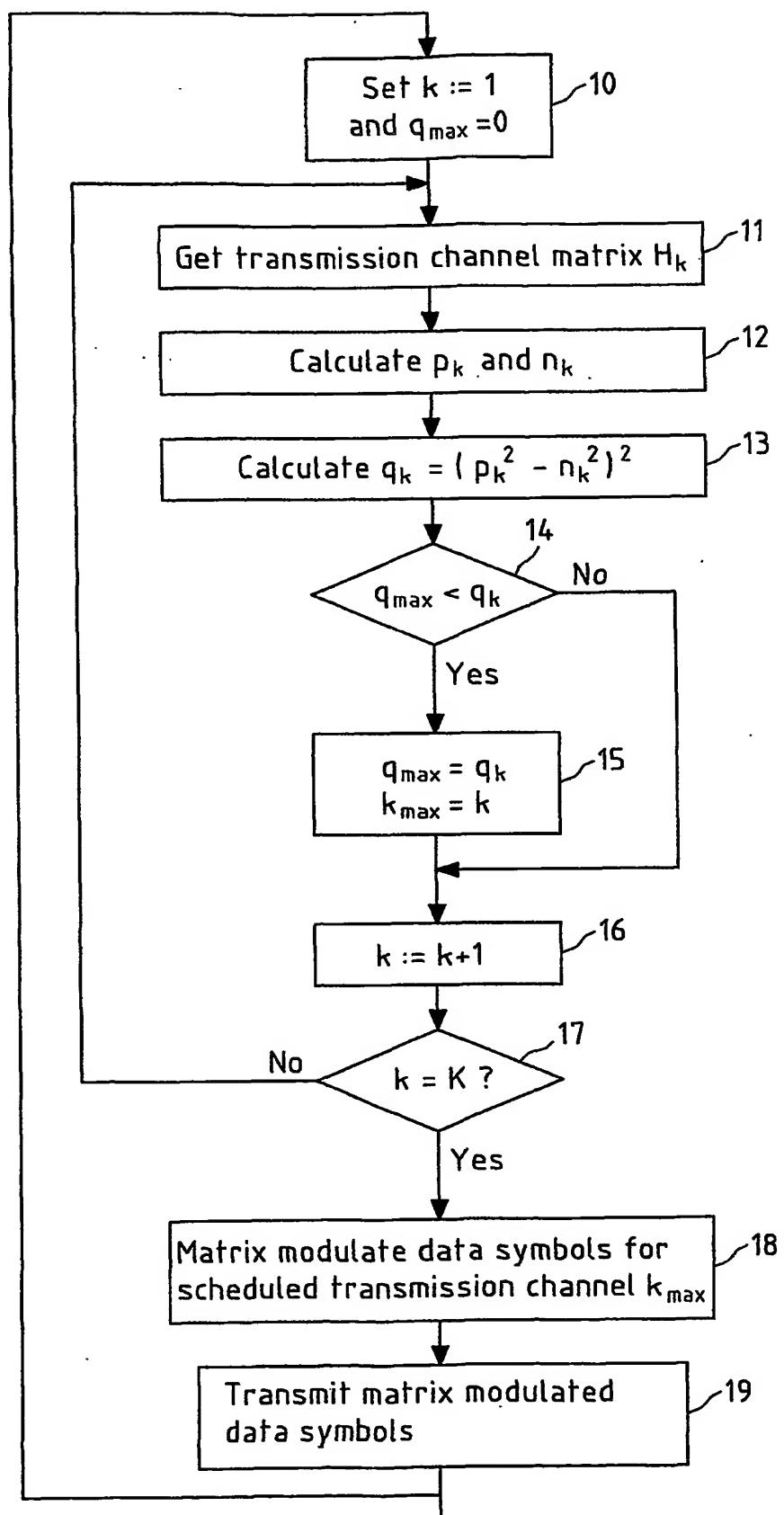


Fig.7

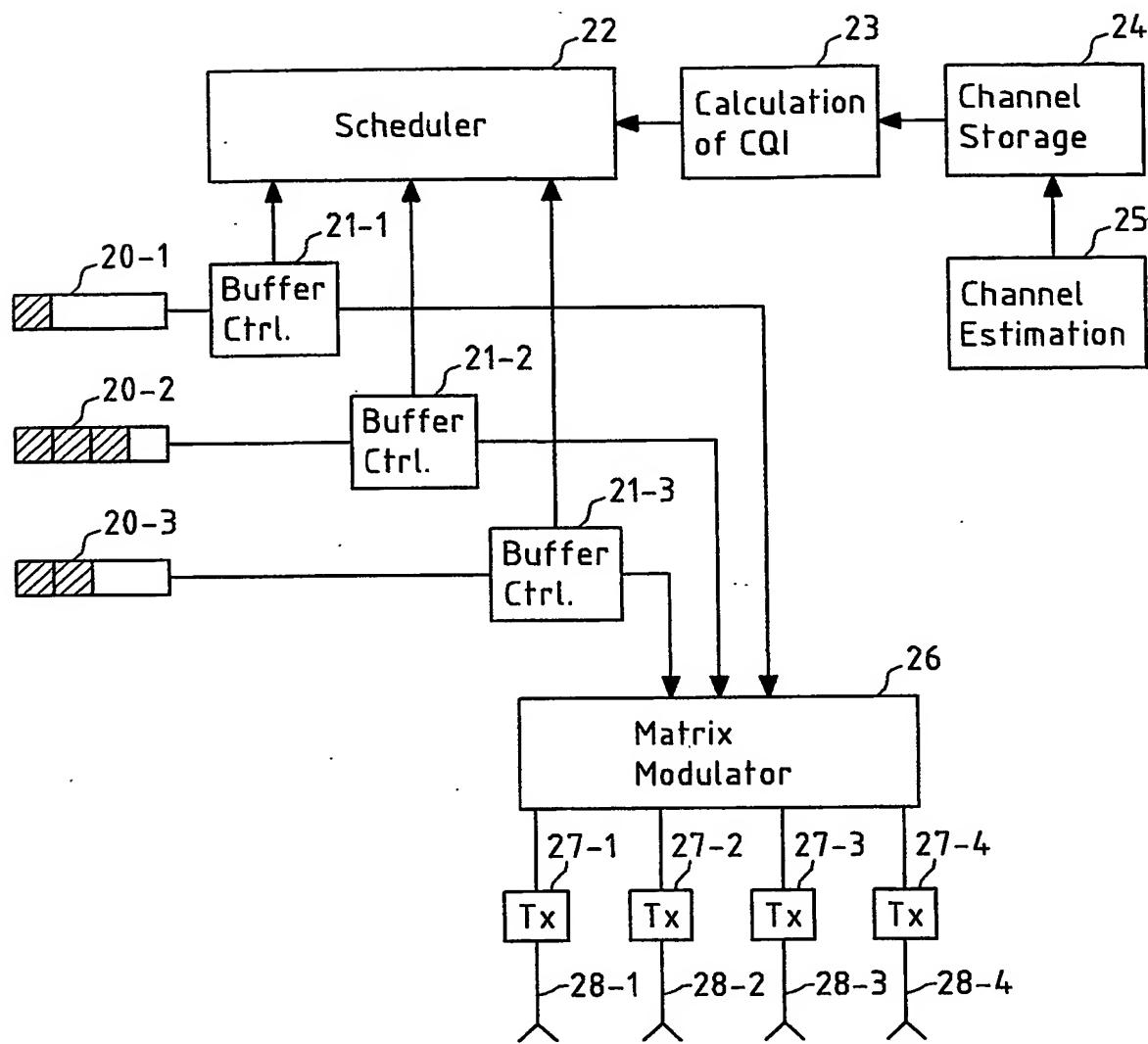


Fig.8